

WHAT IS CLAIMED IS:

1 1. An oximeter sensor comprising:
2 a light emitter for directing light at a patient;
3 a light detector mounted to receive light from said patient; and
4 a memory storing coefficients for use in first and second different formulas
5 for determining oxygen saturation.

1 2. The oximeter sensor of claim 1 wherein said coefficients are
2 dependent on a mean wavelength of said light emitter.

1 3. The oximeter sensor of claim 1 wherein said memory further stores
2 a value indicating a signal breakpoint between said first and second formulas.

1 4. The oximeter sensor of claim 1 wherein at least one of said
2 different formulas is a nonlinear formula.

1 5. The oximeter sensor of claim 1 wherein said different formulas are
2 linear formulas.

1 6. An oximeter sensor comprising:
2 a light emitter for directing light at a patient;
3 a light detector mounted to receive light from said patient; and
4 a memory storing coefficients for use in first and second different formulas
5 for determining oxygen saturation,
6 said memory further storing an indication of a saturation for use in
7 selecting between said first and second formulas.

1 7. The oximeter sensor of claim 6 wherein said coefficients are
2 dependent on a mean wavelength of said light emitter.

1 8. The oximeter sensor of claim 6 wherein said memory further stores
2 a value indicating a signal breakpoint between said first and second formulas.

1 9. The oximeter sensor of claim 6 wherein at least one of said
2 different formulas is a nonlinear formula.

1 10. The oximeter sensor of claim 6 wherein said different formulas are
2 linear formulas.

1 11. An oximeter sensor comprising:
2 a light emitter for directing light at a patient;
3 a light detector mounted to receive light from said patient; and a memory
4 storing a plurality of alternate values of oxygen saturation or ratio-of-ratio values used to
5 determine oxygen saturation, said plurality of values corresponding to a mean wavelength
6 of said light emitter.

1 12. The sensor of claim 11 wherein said values are usable for
2 interpolation.